

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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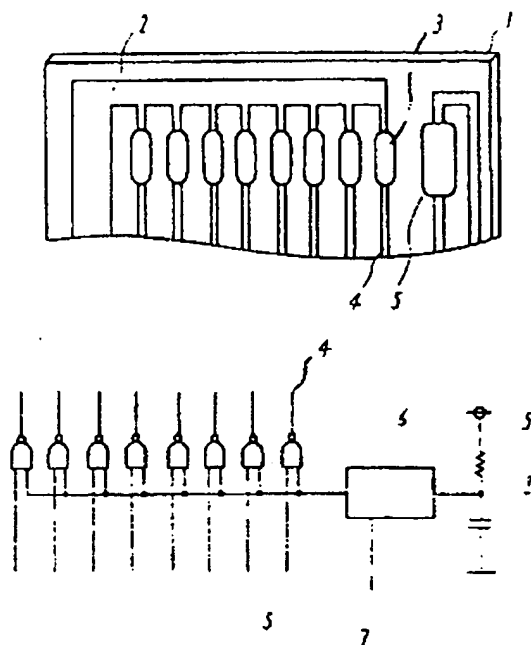
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G06K 15/10

TITLE : THERMAL HEAD



ABSTRACT : PURPOSE: To eliminate the irregularity of printing density, by providing a thermal element in the vicinity of a heat generating resistor.

CONSTITUTION: When a signal is inputted to enable input 7, a monomultivibrator circuit 6 outputs the positive pulse proportional to the time constant determined by a substrate temp. detecting resistor 5 and a condenser 8. At this time, when printing data is H, a control signal becomes L and a current flows to a heat generating resistor 3. The current supply time of the heat generating resistor 3 is determined by the above mentioned time constant but, when the temp. of a thermal head substrate 1 is high, the time constant becomes short (because the substrate temp. detecting resistor 5 has a negative temp. coefficient) and, therefore, a current supply time becomes short. Contrarily, when the temp. of the thermal head substrate 1 is low, the time constant becomes large and the current supply time of the heat generating resistor 3 becomes long. As mentioned above, since the current supply time of the heat generating resistor 3 is changed corresponding to the change of the temp. of the thermal head substrate 1 and the temp. of the heat generating resistor after the supply of a current is kept constant regardless of the temp. of the substrate 1, printing generating no density irregularity can be performed.

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